

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought or the invention entitled: CIRCUITS WITH A TRENCH CAPACITOR HAVING MICRO-ROUGHENED SEMICONDUCTOR SURFACES AND METHODS FOR FORMING THE SAME.

The specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 3 Code of Federal Regulations, § 1.56 (see page 3 attached hereto).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

No such applications have been filed.

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

No such applications have been filed.

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

No such applications have been filed.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Anglin, J. Michael	Reg. No. 24,916	Farney, W. Bryan	Reg. No. 32,651	Lundberg, Steven W.	Reg. No. 30,568
Bianchi, Timothy E.	Reg. No. 39,610	Fogg, David N.	Reg. No. 35,138	Lynch, Michael L.	Reg. No. 30,871
Billig, Patrick G.	Reg. No. 38,080	Forrest, Bradley A.	Reg. No. 30,837	Madrid, Andres N.	Reg. No. 40,710
Billion, Richard E.	Reg. No. 32,836	Harris, Robert J.	Reg. No. 37,346	Pappas, Lia M.	Reg. No. 34,095
Brennan, Thomas F.	Reg. No. 35,075	Hofmann, Rudolph P., Jr.	Reg. No. 38,187	Schwegman, Micheal L.	Reg. No. 25,816
Brooks, Edward J., III	Reg. No. 40,925	Holloway, Sheryl S.	Reg. No. 37,850	Simboli, Paul B.	Reg. No. 38,610
Clark, Barbara J.	Reg. No. 38,107	Klima-Silberg, Catherine I.	Reg. No. 40,052	Slifer, Russell D.	Reg. No. 39,838
Drake, Eduardo E.	Reg. No. 40,594	Kluth, Daniel J.	Reg. No. 32,146	Viksnins, Ann S.	Reg. No. 37,748
Dryja, Michael A.	Reg. No. 39,662	Lemaire, Charles A.	Reg. No. 36,198	Woessner, Warren D.	Reg. No. 30,440
Embretson, Janet E.	Reg. No. 39,665	Litman, Mark A.	Reg. No. 26,390		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402

Telephone No. (612)373-6900

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : Leonard Forbes
Citizenship: United States of America
Post Office Address: 965 NW Highland Terrace
Corvallis, OR 97330

Residence: Corvallis, OR

Signature: _____ Date: 30 DEC 97
Leonard Forbes

Full Name of joint inventor number 2 : Joseph E. Geusic
Citizenship: United States of America
Post Office Address: 261 Lorraine Drive
Berkeley Heights, NJ 07922

Residence: Berkeley Heights, NJ

Signature: _____ Date: _____
Joseph E. Geusic

Full Name of joint inventor number 3 : Kie Y. Ahn
Citizenship: United States of America
Post Office Address: 639 Quaker St.
Chappaqua, NY 10514

Residence: Chappaqua, NY

Signature: _____ Date: _____
Kie Y. Ahn

Full Name of inventor:
Citizenship:
Post Office Address:

Residence:

Signature: _____ Date: _____

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought. the invention entitled: CIRCUITS WITH A TRENCH CAPACITOR HAVING MICRO-ROUGHENED SEMICONDUCTOR SURFACES AND METHODS FOR FORMING THE SAME.

The specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title Code of Federal Regulations, § 1.56 (see page 3 attached hereto).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

No such applications have been filed.

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

No such applications have been filed.

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national PCT international filing date of this application.

No such applications have been filed.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Anglin, J. Michael	Reg. No. 24,916	Farney, W. Bryan	Reg. No. 32,651	Lundberg, Steven W.	Reg. No. 30,5
Bianchi, Timothy E.	Reg. No. 39,610	Fogg, David N.	Reg. No. 35,138	Lynch, Michael L.	Reg. No. 30,8
Billig, Patrick G.	Reg. No. 38,080	Forrest, Bradley A.	Reg. No. 30,837	Madrid, Andres N.	Reg. No. 40,7
Billion, Richard E.	Reg. No. 32,836	Harris, Robert J.	Reg. No. 37,346	Pappas, Lia M.	Reg. No. 34,0
Brennan, Thomas F.	Reg. No. 35,075	Hofmann, Rudolph P., Jr.	Reg. No. 38,187	Schwegman, Micheal L.	Reg. No. 25,8
Brooks, Edward J., III	Reg. No. 40,925	Holloway, Sheryl S.	Reg. No. 37,850	Simboli, Paul B.	Reg. No. 38,6
Clark, Barbara J.	Reg. No. 38,107	Klima-Silberg, Catherine I.	Reg. No. 40,052	Slifer, Russell D.	Reg. No. 39,8
Drake, Eduardo E.	Reg. No. 40,594	Kluth, Daniel J.	Reg. No. 32,146	Viksmins, Ann S.	Reg. No. 37,7
Dryja, Michael A.	Reg. No. 39,662	Lemaire, Charles A.	Reg. No. 36,198	Woessner, Warren D.	Reg. No. 30,4
Embretson, Janet E.	Reg. No. 39,665	Litman, Mark A.	Reg. No. 26,390		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402

Telephone No. (612)373-6900

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : Leonard Forbes
Citizenship: United States of America
Post Office Address: 965 NW Highland Terrace
Corvallis, OR 97330

Residence: Corvallis, OR

Signature: _____ Date: _____
Leonard Forbes

Full Name of joint inventor number 2 : Joseph E. Geusic
Citizenship: United States of America
Post Office Address: 261 Lorraine Drive
Berkeley Heights, NJ 07922

Residence: Berkeley Heights, NJ

Signature: _____ Date: 1/15/98
Joseph E. Geusic

Full Name of joint inventor number 3 : Kie Y. Ahn
Citizenship: United States of America
Post Office Address: 639 Quaker St.
Chappaqua, NY 10514

Residence: Chappaqua, NY

Signature: _____ Date: _____
Kie Y. Ahn

Full Name of inventor:
Citizenship:
Post Office Address:

Residence:

Signature: _____ Date: _____

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe a pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought in the invention entitled: CIRCUITS WITH A TRENCH CAPACITOR HAVING MICRO-ROUGHENED SEMICONDUCTOR SURFACES AND METHODS FOR FORMING THE SAME.

The specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title Code of Federal Regulations, § 1.56 (see page 3 attached hereto).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

No such applications have been filed.

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

No such applications have been filed.

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national PCT international filing date of this application.

No such applications have been filed.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Anglin, J. Michael	Reg. No. 24,916	Farney, W. Bryan	Reg. No. 32,651	Lundberg, Steven W.	Reg. No. 30,5
Bianchi, Timothy E.	Reg. No. 39,610	Fogg, David N.	Reg. No. 35,138	Lynch, Michael L.	Reg. No. 30,8
Billig, Patrick G.	Reg. No. 38,080	Forrest, Bradley A.	Reg. No. 30,837	Madrid, Andres N.	Reg. No. 40,7
Billion, Richard E.	Reg. No. 32,836	Harris, Robert J.	Reg. No. 37,346	Pappas, Lia M.	Reg. No. 34,0
Brennan, Thomas F.	Reg. No. 35,075	Hofmann, Rudolph P., Jr.	Reg. No. 38,187	Schwegman, Micheal L.	Reg. No. 25,8
Brooks, Edward J., III	Reg. No. 40,925	Holloway, Sheryl S.	Reg. No. 37,850	Simboli, Paul B.	Reg. No. 38,6
Clark, Barbara J.	Reg. No. 22,107	Klima-Silberg, Catherine I.	Reg. No. 40,052	Slifer, Russell D.	Reg. No. 39,8
Drake, Eduardo E.	Reg. No. 40,594	Kluth, Daniel J.	Reg. No. 32,146	Viksins, Ann S.	Reg. No. 37,7
Dryja, Michael A.	Reg. No. 39,662	Lemaire, Charles A.	Reg. No. 36,198	Woessner, Warren D.	Reg. No. 30,4
Embretson, Janet E.	Reg. No. 39,665	Litman, Mark A.	Reg. No. 26,390		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402

Telephone No. (612)373-6900

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : Leonard Forbes
Citizenship: United States of America
Post Office Address: 965 NW Highland Terrace
Corvallis, OR 97330

Residence: Corvallis, OR

Signature: _____ Date: _____
Leonard Forbes

Full Name of joint inventor number 2 : Joseph E. Geusic
Citizenship: United States of America
Post Office Address: 261 Lorraine Drive
Berkeley Heights, NJ 07922

Residence: Berkeley Heights, NJ

Signature: _____ Date: _____
Joseph E. Geusic

Full Name of joint inventor number 3 : Kie Y. Ahn
Citizenship: United States of America
Post Office Address: 639 Quaker St.
Chappaqua, NY 10514

Residence: Chappaqua, NY

Signature: _____ Date: Dec. 26, 1997
Kie Y. Ahn

Full Name of inventor:
Citizenship:
Post Office Address:

Residence:

Signature: _____ Date: _____

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe a pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.